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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------------------------|----------------------|---------------------|------------------|
| 10/825,670 | 04/14/2004 | Won Sun Shin | GK0012RI | 8344 |
| | 7590 03/15/200 ICKAY & HODGSON | EXAMINER | | |
| GARDEN WES | ST OFFICE PLAZA, S | LUU, CHUONG A | | |
| 1900 GARDEN ROAD MONTEREY, CA 93940 | | | ART UNIT | PAPER NUMBER |
| | | | 2818 | |
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| SHORTENED STATUTOR | Y PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 03/15/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) | | | | |
|---|--|--|--|--|--|--|
| | 10/825,670 | SHIN ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Chuong A. Luu | 2818 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time.may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statement of the period for reply any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b). | CATION. of 37 CFR 1.136(a). In no event, however, may a r unication. O) days, a reply within the statutory minimum of thirt atutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB | reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | | |
| Status | | • | | | | |
| 1) Responsive to communication(s) file | d on <u>1/17/2006</u> . | | | | | |
| 2a) This action is FINAL . | 2b)⊠ This action is non-final. | | | | | |
| · · | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the | e Examiner. | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | | Summary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date | | | | | | |

Application/Control Number: 10/825,670

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DETAILED ACTION

PRIOR ART REJECTIONS

Statutory Basis

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

The Rejections

Claims 1-35 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 through 38 of Shin et al. (U.S. 6,717,248 B2) in view of Akram et al. (U.S. 6,235,554 B1). Shin teaches the basic features of applicant's claims but does not specifically claim the use of first ball lands, bond fingers, plurality of input/output pads and fusing conductive balls on the first ball lands. However, Akram discloses a stackable chip scale semiconductor package (see Figure 1). Therefore, it would have been obvious to one having ordinary skill in the art

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at the time the invention was made to modify the teaching of Shin (accordance with the teaching of Akram). Doing so would facilitate the manufacture of the semiconductor device and increase the speed of the semiconductor structure. For these reasons, claims 1-35 are seen as obvious variations of the patented claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A. Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:15-2:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information System, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 26, 2007

PRIMARY EXAMINER